

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/569,766  
Source: JFWP  
Date Processed by STIC: 03/06/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/569,766
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 ____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 <del>____</del> Use of <220>	<del>Sequence(s) ____ missing the &lt;220&gt; "Feature" and associated numeric identifiers and responses. Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if &lt;213&gt; "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in &lt;220&gt; to &lt;223&gt; section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules</del>	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFW

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/569,766

DATE: 03/06/2006

TIME: 13:35:24

Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

4 <110> APPLICANT: Crothers, Donald M.  
 6 <120> TITLE OF INVENTION: OLIGONUCLEOTIDE SEQUESTERING AGENTS AND  
 7 METHODS OF USE  
 9 <130> FILE REFERENCE: GENOM.032NP  
 > 11 <140> CURRENT APPLICATION NUMBER: US/10/569,766  
 > 11 <141> CURRENT FILING DATE: 2006-02-23  
 11 <150> PRIOR APPLICATION NUMBER: PCT/US2004/027412  
 12 <151> PRIOR FILING DATE: 2004-08-23  
 14 <150> PRIOR APPLICATION NUMBER: 60/497,821  
 15 <151> PRIOR FILING DATE: 2003-08-25  
 17 <160> NUMBER OF SEQ ID NOS: 26  
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 54  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Homo sapiens  
 26 <400> SEQUENCE: 1  
 27 tctgtaagag cagatccctg gacaggcaag gaatacagag ggcagcagac atcg  
 29 <210> SEQ ID NO: 2  
 30 <211> LENGTH: 27  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Artificial Sequence  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: First complementary nucleic acid  
 37 <400> SEQUENCE: 2  
 38 gcctgtccag ggatctgctc ttacaga  
 40 <210> SEQ ID NO: 3  
 41 <211> LENGTH: 22  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Artificial Sequence  
 45 <220> FEATURE:  
 46 <223> OTHER INFORMATION: Second complementary nucleic acid  
 48 <400> SEQUENCE: 3  
 49 ggacaaaata cctgtattcc tt  
 51 <210> SEQ ID NO: 4  
 52 <211> LENGTH: 41  
 53 <212> TYPE: DNA  
 54 <213> ORGANISM: Artificial Sequence  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: n-dideoxyG  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Sequestering agent  
 62 <400> SEQUENCE: 4

CP8-6)  
 Does Not Comply  
 Corrected Diskette Needed  
 CP5, 2, 3, 4, 5

Invalid Response. What is the  
 Source of genetic  
 Material. PLS see  
 Item 11 on Error  
 Summary  
 Sheet

OK

## RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/569,766

TIME: 13:35:24

Input Set : A:\GENOM.032NP.TXT

Output Set: B:\CRF4\03062006\J569766.raw

> 63 gatccctgga caggccggaa gcggcttttt tgccgcttcc n 41  
 65 <210> SEQ ID NO: 5  
 66 <211> LENGTH: 41  
 67 <212> TYPE: DNA  
 68 <213> ORGANISM: Artificial Sequence  
 70 <220> FEATURE:  
 71 <223> OTHER INFORMATION: Sequestering agent  
 73 <400> SEQUENCE: 5  
 74 gtgccgagac gttttttcgt ctggcacta ggaatacagg t 41  
 76 <210> SEQ ID NO: 6  
 77 <211> LENGTH: 26  
 78 <212> TYPE: DNA  
 79 <213> ORGANISM: Artificial Sequence  
 81 <220> FEATURE:  
 82 <223> OTHER INFORMATION: First complementary nucleic acid  
 84 <400> SEQUENCE: 6  
 85 ctccgcgaga cacctttctcc ttcaag 26  
 87 <210> SEQ ID NO: 7  
 88 <211> LENGTH: 15  
 89 <212> TYPE: DNA  
 90 <213> ORGANISM: Artificial Sequence  
 92 <220> FEATURE:  
 93 <223> OTHER INFORMATION: Second complementary nucleic acid  
 95 <400> SEQUENCE: 7  
 96 tgatgatgaa atcgg 15  
 98 <210> SEQ ID NO: 8  
 99 <211> LENGTH: 15  
 100 <212> TYPE: DNA  
 101 <213> ORGANISM: Artificial Sequence  
 103 <220> FEATURE:  
 104 <223> OTHER INFORMATION: Third complementary nucleic acid  
 106 <400> SEQUENCE: 8  
 107 tgatgatgaa atcga 15  
 109 <210> SEQ ID NO: 9  
 110 <211> LENGTH: 39  
 111 <212> TYPE: DNA  
 112 <213> ORGANISM: Artificial Sequence  
 114 <220> FEATURE:  
 115 <223> OTHER INFORMATION: n=dideoxyG  
 117 <220> FEATURE:  
 118 <223> OTHER INFORMATION: First sequestering agent  
 120 <400> SEQUENCE: 9  
 121 ggtgtctgcg ggagcgggaag cggctttttg ccgcttccn 39  
 123 <210> SEQ ID NO: 10  
 124 <211> LENGTH: 37  
 125 <212> TYPE: DNA  
 126 <213> ORGANISM: Artificial Sequence  
 128 <220> FEATURE:  
 129 <223> OTHER INFORMATION: Second sequestering agent

Same Enon

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/569,766

DATE: 03/06/2006

TIME: 13:35:24

Input Set : A:\GENOM.032NF.TXT

Output Set: N:\CRF4\03062006\J569766.raw

```

131 <400> SEQUENCE: 10
132 gctgcaccgc ttttttgcgg tgcaccgat ttcacga 37
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 37
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Third sequestering agent
142 <400> SEQUENCE: 11
143 gctgcaccgc ttttttgcgg tgcactcgat ttcacga 37
145 <210> SEQ ID NO: 12
146 <211> LENGTH: 96
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: RC probe
153 <400> SEQUENCE: 12
154 gcacctcaaa gctgttcctg cccagttgac tatectcagt gaattctagc tactggcaat 60
155 ctgatcccta tagtgagtcg tattacaggc acaaac 96
157 <210> SEQ ID NO: 13
158 <211> LENGTH: 15
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: 2 tag
165 <400> SEQUENCE: 13
166 agctactggc aatct 15
168 <210> SEQ ID NO: 14
169 <211> LENGTH: 20
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: T7 promoter
176 <400> SEQUENCE: 14
177 ccctatagtg agtcgtatta 20
179 <210> SEQ ID NO: 15
180 <211> LENGTH: 6
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Eco RI site
187 <400> SEQUENCE: 15
188 gaattc 6
190 <210> SEQ ID NO: 16
191 <211> LENGTH: 3
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: 3' nucleotide gap

```

same  
over

## RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/569,766

TIME: 13:35:24

Input Set : A:\GENOM.032HP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

198 <400> SEQUENCE: 16  
 199 gat 3  
 201 <210> SEQ ID NO: 17  
 202 <211> LENGTH: 13  
 203 <212> TYPE: DNA  
 204 <213> ORGANISM: Artificial Sequence  
 206 <220> FEATURE:  
 207 <223> OTHER INFORMATION: Sequence complementary to p53  
 209 <400> SEQUENCE: 17  
 210 caggcacaaa cac 13  
 212 <210> SEQ ID NO: 18  
 213 <211> LENGTH: 24  
 214 <212> TYPE: DNA  
 215 <213> ORGANISM: Artificial Sequence  
 217 <220> FEATURE:  
 218 <223> OTHER INFORMATION: Sequence complementary to p53  
 220 <400> SEQUENCE: 18 24  
 221 gcacctcaaa gctgttcggt ccca  
 223 <210> SEQ ID NO: 19  
 224 <211> LENGTH: 21  
 225 <212> TYPE: DNA  
 226 <213> ORGANISM: Artificial Sequence  
 228 <220> FEATURE:  
 229 <223> OTHER INFORMATION: RC primer  
 231 <400> SEQUENCE: 19  
 232 gataggagtc acttaagatc g 21  
 234 <210> SEQ ID NO: 20  
 235 <211> LENGTH: 34  
 236 <212> TYPE: DNA  
 237 <213> ORGANISM: Homo sapiens  
 239 <400> SEQUENCE: 20  
 240 ctaatctgta agagcagatc cctggacagg caag 34  
 242 <210> SEQ ID NO: 21  
 243 <211> LENGTH: 22  
 244 <212> TYPE: DNA  
 245 <213> ORGANISM: Homo sapiens  
 247 <400> SEQUENCE: 21  
 248 aaggaatata ggtattttgt cc 22  
 250 <210> SEQ ID NO: 22  
 251 <211> LENGTH: 14  
 252 <212> TYPE: DNA  
 253 <213> ORGANISM: Artificial Sequence  
 255 <220> FEATURE:  
 256 <223> OTHER INFORMATION: F5 1698 T7 Probe  
 258 <400> SEQUENCE: 22  
 259 gcctgtccag ggat 14  
 261 <210> SEQ ID NO: 23  
 262 <211> LENGTH: 37  
 263 <212> TYPE: DNA

3

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14

Same error  
 7

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 03/06/2006  
PATENT APPLICATION: US/10/569,766      TIME: 13:35:25

Input Set : A:\GENOM.032NP.TXT  
Output Set: H:\CRF4\03062006\J569766.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the  
uence Listing to ensure that a corresponding explanation is presented in the <220>  
<223> fields of each sequence which presents at least one n or Xaa.

#:4; N Pos. 41

#:9; N Pos. 39

#:23; N Pos. 37

**VARIABLE LOCATION SUMMARY**

**DATE: 03/06/2006**

**PATENT APPLICATION: US/10/569,766**

**TIME: 13:35:25**

**Input Set : A:\GENOM.032NP.TXT**

**Output Set: N:\CRF4\03062006\J569766.raw**

**of n's or Xaa's (NEW RULES):**

**of n's and/or Xaa's have been detected in the Sequence Listing.**

**of <220> to <223> is MANDATORY if n's or Xaa's are present.**

**<220> to <223> section, please explain location of n or Xaa, and which  
idue n or Xaa represents.**

**#:4; N Pos. 41**

**#:9; N Pos. 39**

**#:23; N Pos. 37**



VERIFICATION SUMMARY

DATE: 03/06/2006

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TIME: 13:35:25

Input Set : A:\GENFOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

1 M:270 C: Current Application Number differs, Replaced Current Application No  
 1 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 3 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4  
 3 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4  
 3 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
 21 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:9  
 21 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9  
 21 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
 73 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:23  
 73 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:23  
 73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0